



## INSTALLATION AND OPERATION MANUAL

### CNFE5SMS

#### FIVE PORT 10/100T(X) ETHERNET SELF-MANAGED SWITCH

The ComNet™ CNFE5SMS is a five-port self-managed Ethernet switch with uplink management functionality. It provides five ports operating at 10/100Mbps and is designed to combine Ethernet data from the four electrical ports into a fifth electrical port and forward that data to the next network device. There is no programming required to use this switch. The ComNet CNFE5SMS comes pre-programmed, preventing network video flooding with DIP switch selection of port five as uplink or as an unmanaged switch. It is "Plug-and-Play".

LED indicators confirm the operating status of this device. See **Figure 4** on **Page 3** for an explanation of the indicators.

The ComNet CNFE5SMS may be either wall mounted, rack mounted ("ComFit" packaging) or DIN-rail mounted with the use of the ComNet DINBKT1 adapter. See **Figure A** on **Page 4** for mounting instructions.

See **Figures 1 – 5** for complete installation details.

The diagram illustrates the Comnet 1000 network switch. On the left side, there are five RJ-45 ports, each with a horizontal double-headed arrow indicating its function. The front panel features the Comnet logo and contact information: **comnet™**, **COMMUNICATION NETWORKS**, **www.comnet.net**, **1-203-796-5300**, and **+ 44 (0)113 307 6400**. The top and bottom edges of the device have mounting slots. On the right side, there is a power supply connector with two options: a solid black line for 'BLACK' and a dashed black line for 'BLACK WITH WHITE STRIPE'. Below this, the power supply specifications are listed: 'Power Supply: Surface Mount: 9-24VDC@1A' and 'Rack Mount: From Rack'. A note at the bottom right states: 'NOTE: Remove Electrical Connector for Rack Mount Units'.

RJ-45

RJ-45

RJ-45

RJ-45

RJ-45

**comnet™**  
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BLACK  
BLACK WITH WHITE STRIPE

Power Supply:  
Surface Mount: 9-24VDC@1A  
Rack Mount: From Rack

NOTE: Remove Electrical  
Connector for Rack  
Mount Units

The diagram illustrates the front and rear panels of the CNFE55MS module. The front panel (left) features a 'CNFE55MS SELF-MANAGED ETHERNET SWITCH' with five ports labeled P1 through P5. Ports P1, P2, P3, and P4 are RJ45 ports, while P5 is a SFP port. Power is supplied via a PWR pin header (PWR, LA) and a DC jack. The rear panel (right) includes a 'PORT 5 UP LINK ENABLED' switch, a 'PWR' pin header (GND, +Vin), and a DC jack.


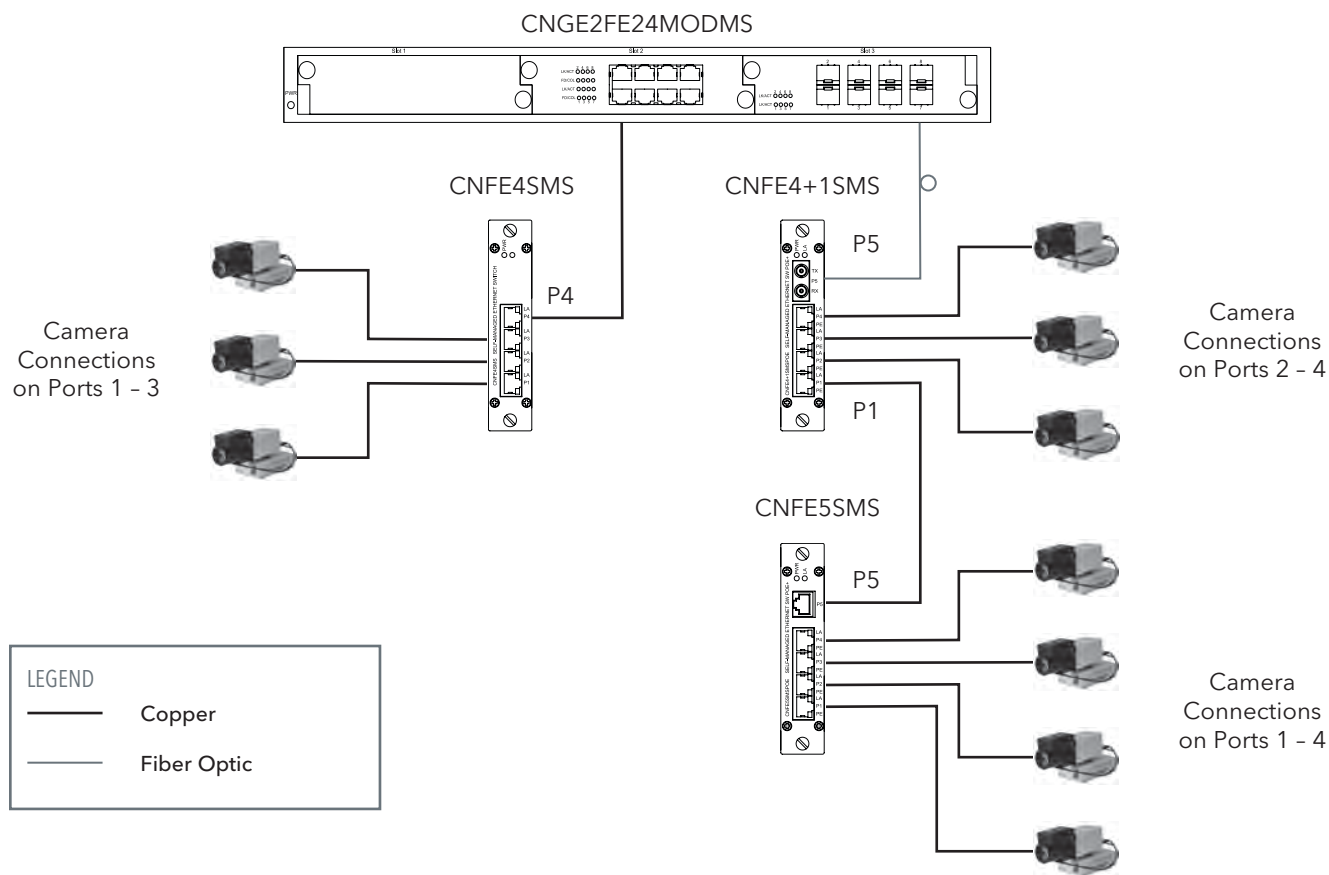
PORT 5 UP LINK ENABLED ON → 	EFFECT	UPLINK
	Uplink Enabled	ON
	Uplink Disabled	OFF

FIGURE 4 - LED INDICATORS

	LINK (P5)	LINK (P1 - P4)	PWR
<b>SOLID</b>	Link Up	Link Up	Power Applied
<b>BLINKING</b>	Data Activity	Data Activity	-
<b>OFF</b>	No Data Link	No Data Link	Power Not Applied

FIGURE 5 - APPLICATION DIAGRAM WITH MULTICAST TRAFFIC

IGMP Enabled on CNGE2FE24MODMS, Uplink enabled on the units



# MECHANICAL INSTALLATION INSTRUCTIONS

## INSTALLATION CONSIDERATIONS

This switch is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

### C1-US, C1-EU, C1-AU OR C1-CH CARD CAGE RACKS

**CAUTION:** Although the units are hot-swappable and may be installed without turning power off to the rack, ComNet recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. **Note:** Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

**CAUTION:** Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

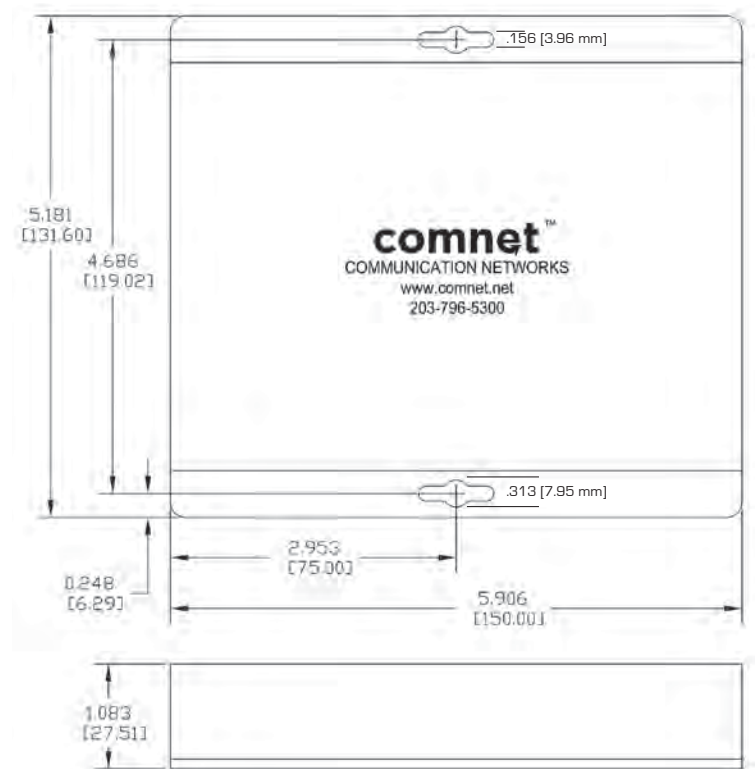
**WARNING:** Unit is to be used with a Listed Class 2 or LPS power supply.

#### IMPORTANT SAFEGUARDS:

- A) Elevated Operating Ambient** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.
- B) Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**FIGURE A**

*Dimensions are for a standard ComNet™ one slot module*



MADE IN THE  
**USA**

**comnet**  
Communication Networks

3 CORPORATE DRIVE | DANBURY, CT 06810 | USA  
T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET  
8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE  
T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET